

Notice of Allowability

Application No.

09/813,707

Examiner

LaToya I. Cross

Applicant(s)

TAJIMA, HIDEJI

Art Unit

1743

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicants' After-Final amendment dated 09/20/05.
2. ☒ The allowed claim(s) is/are 2-4,6-11 and 13-16.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Jili Warden
Supervisory Patent Examiner
Technology Center 1700

II. Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (cancelled)

③ ~~2.~~ (previously presented) A support for substances for detection according to claim 6 or 7, wherein one or more marks are provided on said base member to indicate a reference position.

④ ~~3.~~ (previously presented) A support for substances for detection according to claim 6 or 7, wherein said base member is supported by said supporting member, while being enclosed in a defined area so that said base member can contact with a liquid, and can be expanded from the area.

⑦ ~~4.~~ (previously presented) A support for substances for detection according to claim 6 or 7, wherein said supporting member comprises a reel, and said reel comprises a core on which said base member is wound, and two guide frames mounted on opposite ends of said core facing one another and through which a liquid can pass.

5. (cancelled)

① ~~6.~~ (previously presented) A support for substances for detection comprising:

a flexible base member formed to be slender like a thread, string or tape;

a variety of substances for detection having predetermined chemical structure and being fixed side by side along the length of the base member; and

a supporting member for supporting the base member in a manner that enables expansion,

said supporting member comprising a frame body, and a feed support section mounted on said frame body for supporting said base member in a manner that enables feeding,

wherein said feed support section comprises a drum rotatably mounted on said frame body and threaded around a periphery thereof, and said frame body has an arm for enabling said base member to be inserted into a vessel outside of said support for substances for detection, and said base member is wound along a bottom of the thread of said drum and can be moved in the neighborhood of a tip end of said arm by rotating said drum;

said base member being supported by said feed support section so as to be able to travel along a defined feed pathway;

wherein a fixed location of each substance for detection corresponds with the chemical structure thereof.

② 7. (previously presented) A support for substances for detection comprising:

a flexible base member formed to be slender like a thread, string or tape;

a variety of substances for detection having predetermined chemical structure and being fixed side by side along the length of the base member; and

a supporting member for supporting the base member in a manner that enables expansion, said supporting member comprising:

a frame body, and a feed support section mounted on said frame body for supporting said base member in a manner that enables feeding,
said base member being supported by said feed support section so as to be able to travel along a defined feed pathway;

wherein said feed support section comprises a supply reel and a take-up reel having a core around which said base member can be wound, and two guide frames through which liquid can pass mounted on opposite ends of said core, and said two reels are rotatably mounted on said frame body, and said frame body has an arm for enabling said base member to be inserted into a vessel

outside of said support for substances for detection, and said base member is routed between two reels so as to pass around the tip end of said arm;

wherein a fixed location of each substance for detection corresponds with the chemical structure thereof.

8. (original) A support for substances for detection, according to claim 7, wherein said frame body comprises a casing, and an arm outwardly extending from said casing, and said take-up reel is rotatably mounted on said casing, and said supply reel is rotatably mounted on the tip end section of said arm.
9. (previously presented) A support for substances for detection according to claim 6 or 7, wherein said feed support section comprises one or more rollers rotatably mounted on said frame body along said feed pathway.
10. (original) A support for substances for detection according to claim 9, comprising a protection belt sandwiched between said roller and said base member at the periphery of said roller, that travels at a predetermined feed velocity.
11. (previously presented) A support for substances for detection according to claim 6 or 7, comprising a detection region and/or a reaction region, on said feed pathway of said base member, wherein said detection region is one where substances for detection are detected, and said reaction region is one where the reaction between the substances for detection and the target substances is carried out.
12. (cancelled)
12. ~~13.~~ (previously presented) A support for substances for detection according to claim 6 or 7, wherein said feed support section comprises a coupling for connecting with an outer feed mechanism for feeding said base member.
14. (original) A support for substances for detection according to claim 3, wherein said supporting member is made of a permeable material having a plurality of pores.

⑥ 15. (previously presented) A support for substances for detection according to claim 14, wherein said supporting member comprises a spacer member for generating a space around said base member when said base member is integrated and supported.

⑬ 16. (previously presented) A support for substances for detection comprising:

a flexible base member formed to be slender like a thread, string or tape;

a variety of substances for detection having predetermined chemical structure and being fixed side by side along the length of the base member; and

a supporting member made of a permeable material having a plurality of pores and adapted to support the base member, said supporting member comprising:

a core on which said base member is wound, and

two guide frames mounted on opposite ends of said core facing one another and through which a liquid can pass; and

detachable spacer pins provided so as to pierce through holes in one guide frame, pass near an outer periphery of said core and reach the other guide frame for generating a space around said base member;

said base member being enclosed in a defined area so that said base member can contact with a liquid, and can be expanded from the area;

wherein a fixed location of each substance for detection corresponds with the chemical structure thereof.

17 – 48 (cancelled)